

Fig.1  
Related Art

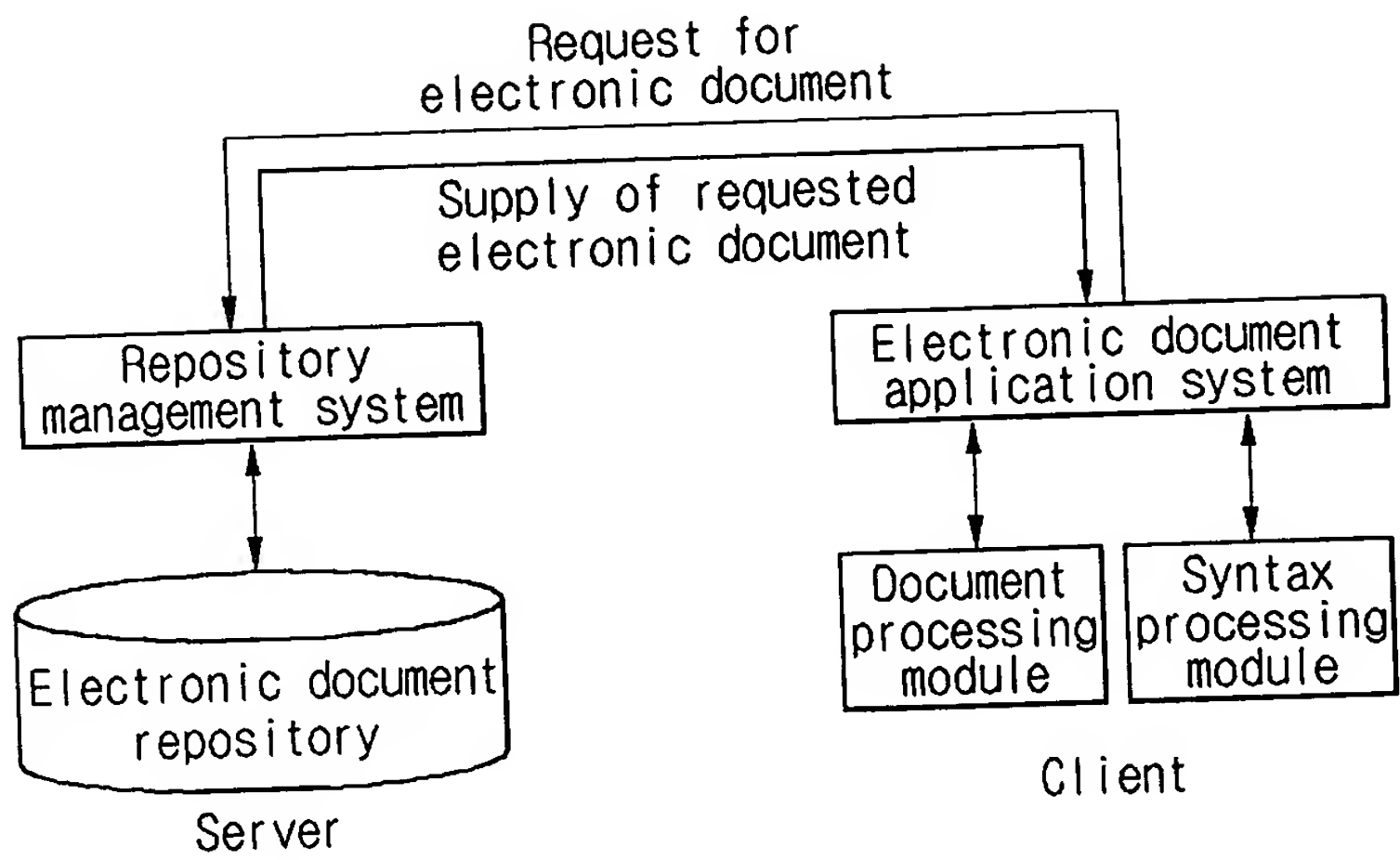


Fig.2  
Related Art

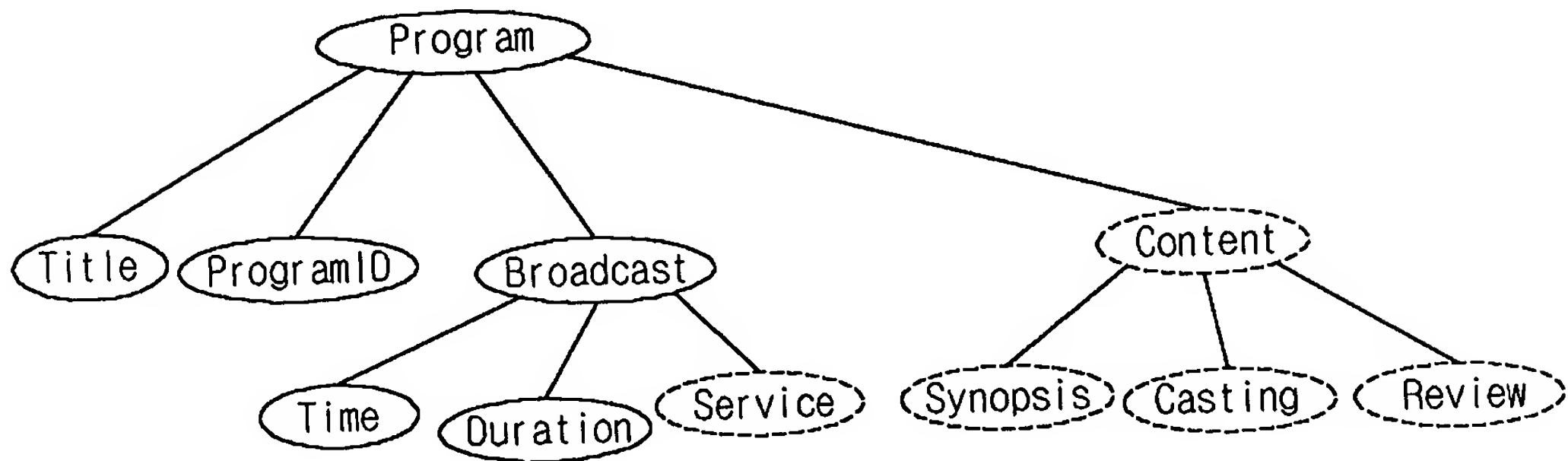


Fig.3  
Related Art

```
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT Programs (Program+)>
<!ELEMENT Program (Title, ProgramID, Broadcast, Content?)>
<!ELEMENT Title (#PCDATA)>
<!ELEMENT ProgramID (#PCDATA)>
<!ELEMENT Broadcast (Time, Duration, Service?)>
<!ELEMENT Time (#PCDATA)>
<!ELEMENT Duration (#PCDATA)>
<!ELEMENT Service (#PCDATA)>
<!ELEMENT Content (Synopsis*, Casting*, Review*)>
<!ELEMENT Synopsis (#PCDATA)>
<!ELEMENT Casting (#PCDATA)>
<!ELEMENT Review (#PCDATA)>
```

Fig.4  
Related Art

```
<?xml version="1.0" encoding="UTF-8"?>
<schema targetNamespace="http://www.tvguide.com"
  xmlns=http://www.w3c.org/2001/XMLSchema
  elementFormDefault="unqualified">
  <import namespace="http://www.w3c.org/XML/1998/namespace"
    schemaLocation="./xml-1998.xsd"/>

  <element name="Programs">
    <complexType>
      <sequence>
        <element name="Program" maxOccurs="unbounded">
          <complexType>
            <sequence>
              <element name="Title"/>
              <element name="ProgramID"/>
              <element name="Broadcast">
                <complexType>
                  <sequence>
                    <element name="Time" type="dateTime"/>
                    <element name="Duration" type="dateTime"/>
                    <element name="Service" type="string" minOccurs="0"/>
                  </sequence>
                </complexType>
              </element>
              <element name="Content" minOccurs="0">
                <complexType>
                  <sequence>
                    <element name="Synopsis" type="string" minOccurs="0"
maxOccurs="unbounded"/>
                    <element name="Casting" type="string" minOccurs="0"
maxOccurs="unbounded"/>
                    <element name="Review" type="string" minOccurs="0"
maxOccurs="unbounded"/>
                  </sequence>
                </complexType>
              </element>
            </sequence>
          </complexType>
        </element>
      </sequence>
    </complexType>
  </element>
</schema>
```

Fig.5  
Related Art

```
<?xml version="1.0" encoding="UTF-8"?>
<Programs>
  <Program>
    <Title>Friends</Title>
    <ProgramID>KTLA-2003-0509</ProgramID>
    <Broadcast>
      <Time>2003-05-09 19:00</Time>
      <Duration>30m</Duration>
      <Service>KTLA</Service>
    </Broadcast>
    <Content>
      <Synopsis>


It all begins when a pregnant Rachel (Jennifer Aniston) realizes that her dating days may be over after she gives birth. Hoping to lift her spirits, Joey (Matt LeBlanc) takes his blue roomie out for a night on the town, complete with flowers, dinner and some juicy revelations about their best "date moves." But once the pair part ways at evening's end, Joey is shaken by newfound feelings for his friend.


      </Synopsis>
    </Content>
  </Program>
</Programs>
```

Fig.6  
Related Art

```
<?xml version="1.0" encoding="UTF-8"?>
<Programs>
  <Program>
    <Title>Sesame Street</Title>
    <ProgramID>KCET-2003-0509</ProgramID>
    <Broadcast>
      <Time>2003-05-09 12:00</Time>
      <Duration>60m</Duration>
      <Service>KCET</Service>
    </Broadcast>
    <Content>
      <Casting>Allison Bartlett O'Reilly</Casting>
      <Casting>Linda Bove</Casting>
      <Casting>Kristen Chenoweth</Casting>
      <Casting>Emilio Delgado</Casting>
    </Content>
  </Program>
</Programs>
```

Fig.7

```
<?xml version="1.0" encoding="UTF-8"?>
<Programs>
  <Program>
    <ProgramID>KTLA-2003-0509</ProgramID>
    <Content>
      <Review></Review>
    </Content>
  </Program>
</Programs>
```

Fig.8

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<Programs>
```

```
<Program>
```

```
<Title>Friends</Title>
```

```
<ProgramID>KTLA-2003-0509</ProgramID>
```

```
<Broadcast>
```

```
<Time>2003-05-09 19:00</Time>
```

```
<Duration>30m</Duration>
```

```
<Service>KTLA</Service>
```

```
</Broadcast>
```

```
<Content>
```

```
<Synopsis>
```

It all begins when a pregnant Rachel (Jennifer Aniston) realizes that her dating days may be over after she gives birth. Hoping to lift her spirits, Joey (Matt LeBlanc) takes his blue roomie out for a night on the town, complete with flowers, dinner and some juicy revelations about their best "date moves." But once the pair part ways at evening's end, Joey is shaken by newfound feelings for his friend.

```
</Synopsis>
```

```
<Review>
```

Always best as a sparkling romantic comedy, Friends is funnier, sharper, sweeter and more satisfying than at any time since the early stages of Monica (Courteney Cox Arquette) and Chandler's (Matthew Perry) once-secret courtship.

Unquestionably, the revelation that Rachel (Jennifer Aniston) is pregnant by Ross (David Schwimmer) — an unexpected twist in a rocky relationship Ross recently described as "one heck of a see-saw" — has brought renewed comic vigor and heart to a show that a year ago was looking awfully worn out.

Of course, when a long-running series brings a baby on board, it's difficult to know if it will be seen as a blessed event or as the beginning of the end. In the case of Friends, maybe it's a little of both. ...

```
</Review>
```

```
</Content>
```

```
</Program>
```

```
</Programs>
```

Fig.9

```
<?xml version="1.0" encoding="UTF-8"?>
<Programs>
  <Program>
    <Content>
      <Casting>Lisa Kudrow</Casting>
    </Content>
  </Program>
</Programs>
```

Fig.10

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<Programs>
```

```
  <Program>
```

```
    <Title>Friends</Title>
```

```
    <ProgramID>KTLA-2003-0509</ProgramID>
```

```
    <Broadcast>
```

```
      <Time>2003-05-09 19:00</Time>
```

```
      <Duration>30m</Duration>
```

```
      <Service>KTLA</Service>
```

```
    </Broadcast>
```

```
    <Content>
```

```
      <Synopsis>
```

It all begins when a pregnant Rachel (Jennifer Aniston) realizes that her dating days may be over after she gives birth. Hoping to lift her spirits, Joey (Matt LeBlanc) takes his blue roomie out for a night on the town, complete with flowers, dinner and some juicy revelations about their best "date moves." But once the pair part ways at evening's end, Joey is shaken by newfound feelings for his friend.

```
      </Synopsis>
```

```
    </Content>
```

```
  </Program>
```

```
  <Program>
```

```
    <Title>Mother</Title>
```

```
    <ProgramID>KTLA-2003-0510</ProgramID>
```

```
    <Broadcast>
```

```
      <Time>2003-05-10 15:00</Time>
```

```
      <Duration>105m</Duration>
```

```
      <Service>PBS</Service>
```

```
    </Broadcast>
```

```
    <Content>
```

```
      <Synopsis>
```

Debbie Reynolds and writer-director Albert Brooks play a dysfunctional mother and son in this charming comedy from 1996.

Brooks stars as John Henderson, a neurotic, twice-divorced sci-fi writer who moves back home with his disapproving mom to get to the root of his problem with women. Arguments over food and spending habits soon arise, and Mom's house becomes a comic battlefield littered with subtle insults about John's writing. Reynolds' scene-stealing performance earned her a Golden Globe nomination for Best Actress. Rob Morrow stars as Brooks' younger brother.

```
      </Synopsis>
```

```
    </Content>
```

```
  </Program>
```

```
</Programs>
```



Fig.11

```
<?xml version="1.0" encoding="UTF-8"?>
<Invalid>
  <Programs>
    <Program>
      <Title>Larry King</Title>
      <ProgramID>CNN-2003-0509</ProgramID>
      <Broadcast>
        <Time>2003-05-10 00:00</Time>
        <Duration>60m</Duration>
        <Service>CNN</Service>
      </Broadcast>
      <Content>
        <Synopsis> An interview series with the famed broadcaster.</Synopsis>
      </Content>
    </Program>
  </Programs>
</Invalid>
```

Fig.12

```
<?xml version="1.0" encoding="UTF-8"?>
<Programs>
  <Program Invalid="true">
    <Title>Larry King</Title>
    <ProgramID>CNN-2003-0509</ProgramID>
    <Broadcast>
      <Time>2003-05-10 00:00</Time>
      <Duration>60m</Duration>
      <Service>CNN</Service>
    </Broadcast>
    <Content>
      <Synopsis> An interview series with the famed broadcaster.</Synopsis>
    </Content>
  </Program>
</Programs>
```